## U.S DEPARTMENT OF ENERGY

# **ENVIRONMENTAL QUESTIONNAIRE**

#### I. <u>BACKGROUND</u>

The Department of Energy (DOE) National Environmental Policy Act (NEPA) Implementing Procedures (10 CFR 1021) require careful consideration of the potential environmental consequences of all proposed actions during the early planning stages of a project or activity. DOE policy directs at the earliest possible stage in a project whether such actions will require preparation of an Environmental Assessment, an Environmental Impact Statement, or a Categorical Exclusion. To comply with these requirements, an Environmental Questionnaire (EMCBC Form #) must be completed for each proposed action to provide DOE with the information necessary to determine the appropriate level of NEPA review and documentation. If the proposed project qualifies for the Categorical Exclusion designation, a Categorical Designation Form (EMCBC Form #) will also be completed in addition to the Environmental Questionnaire.

#### II. INSTRUCTIONS

Separate copies of the Environmental Questionnaire and Categorical Exclusion Designation Form (if required) should be completed by the principal proper and principal subcontractor(s). In addition, if the proposed project includes activities at different locations, an independent questionnaire should be prepared for each location. Supporting information can be provided as attachments.

In completing this Questionnaire, the proposer is requested to provide specific information and quantities, when applicable, regarding air emissions, wastewater discharges, solid waste, etc., to facilitate the necessary review. The proposer should identify the locations of the project and specifically describe the activities that would occur at that location. In addition, the proposer will be required to submit an official copy of the project's statement of work (SOW) or statement of project objective (SOPO) that will be used in the contract/agreement between the proposer and DOE.

# III. QUESTIONNAIRE

Α.	PROJECT SUMMA.	KY
1.	Solicitation/Project Number:	
2.	Proposer and Subcontractors:	
3.	Dainainal Innestinatan	
	Telephone Number:	
4.	Project Title:	
5.	Duration:	
6.	Location(s) of Performance (C	city/Township, County, State):
		,
7.	Identify and select checkbox v	with the predominant project work activities under group A-7a, A-7b, or A-7c.

### Group A-7a

☐ Categorical Exclusion CX-A: Routine administrative, procurement, training, and personnel actions. Contract activities/awards for management support, financial assistance, and technical services in support of agency business, programs, projects, and goals. Literature searches and information gathering, material inventories, property surveys; data analysis, computer modeling, analytical reviews, technical summary, conceptual design, feasibility studies, document preparation, data dissemination, and paper studies. Technical assistance

including financial planning, assistance, classroom training, public meetings, management training, survey participation, academic contribution, technical consultation, stakeholders surveys. Workshop and conference planning, preparation, and implementation which may involve promoting energy efficiency, renewable energy, and energy conservation.

#### Group A-7b

Categorical Exclusion CX-B, Laboratory Scale Research, Bench Scale Research, Pilot Scale Research, Proof-of-Concept Scale Research or Field Test Research. Work <u>DOES NOT</u> involve new building/facilities construction and site excavation/groundbreaking activities. This work typically involves routine operation of <u>existing</u> laboratories, commercial buildings/properties, offices and homes, project test facilities, factories/power plants, vehicles test stands and components, refueling facilities, utility systems, or other existing structures/facilities. Work will NOT involve major changes in facilities missions and operations, land use planning, new/modified regulatory/operating permit requirements. Includes work specific to routine DOE Site operations and Lab research work activities, but NOT building construction and site preparations. DOE work typically involves laboratory facilities and lab equipment operations, buildings and grounds management activities; and buildings and facilities maintenance, repairs, reconfiguration, remodeling, equipment use and replacement.
Group A-7c
Categorical Exclusion CX-B, Environmental Assessment (EA), Environmental Impact Statement (EIS): Pilot Test Facilities Construction, Pilot Scale Research, Field Scale Demonstration, or Commercial Scale Application. Work typically involves facility construction, site preparation/excavation/groundbreaking, and/or demolition. This work would include construction, retrofit, replacement, and/or major modifications of laboratories, test facilities, energy system prototypes, and power generation infrastructure. Work may also involve construction and maintenance of utilities system right-of-ways, roads vehicle test facilities, commercial buildings/properties, fuel refinery/mixing facilities, refueling facility, power plants, underground wells, and pipelines, and other types of energy research related facilities. This work may require new or modified regulatory permits, environmental sampling requirements, master planning, public involvement, and environmental impact review. Includes work specific to DOE Site Operations and Lab operation activities involving buildings and facilities construction, replacement, Site Operations and Lab operation, land use

☐ Other (please describe):

changes, or change in research facilities mission or operations.

If all activities related to this project can be classified and described within categories under item A-7a, it is a categorically excluded action. Proceed directly to Section IV CERTIFICATION BY PROPOSER, completing Information and signatures as requested. The questionnaire is now complete and no additional information is required

If project activities are described under either item(s) A-7b or A-7c; then continue filling out the questionnaire starting below with question A.8.

- 8. Summarize the objectives of the proposed work. List activities planned at the location as covered by this Environmental Questionnaire.
- 9. List all other locations where work would be performed by the primary contractor of the project and primary subcontractor(s). (Note: An environmental questionnaire may be required for each <u>new</u> location after reviewing the SOW/SOPO, project scope, tasks, and environmental affects).

10. Identify major materials that would be used and produced by the project when projects are larger than lab or bench scale.

Materials Used (Input)	(Estimate Quantity)	Materials Produced (output)	(Estimate Quantity)
□ Coal		□ Wastewater	
□ Natural Gas		☐ Air Emissions	
□ Oil		□ Solid Waste	
□ Electricity		☐ Hazardous Waste	
□ Water		□ Others List	
□ Others List			

#### B. PROPOSED PROJECT ALTERNATIVES

1. If applicable, list any project alternatives considered to achieve the project objectives.

#### C. PROJECT LOCATION

- 4. Provide a brief description of the project location (physical location, surrounding area, adjacent structures).
- 5. Attach a project site location map of the project work area. Project site photos and topographical maps may be requested for further review.

#### D. ENVIRONMENTAL IMPACTS

☐ No land areas would be affected

This section is designed to obtain information concerning environmental impacts and regulatory compliance of a proposed project. NEPA procedures require evaluations of possible effects (including land use, energy resource use, natural, historic and cultural resources, and pollutants) from proposed projects on the environment.

#### 1. Land Use

a. Characterize present land use where the proposed project would be located.

□ Urban	□ Industrial	□Commercial	□ Agricultural
□ Suburban	□ Rural	□ Residential	☐ Research Facilities
□ Forest	☐ University Campus	□ Other	

b.	Identify the total size of the facility, structure, or system and what portion would be used for the proposed project
c.	Describe planned construction, installation, and/or demolition activities, i.e., roads, utilities system, right-of-ways, parking lots, buildings, laboratories, storage tanks, fueling facilities, underground wells, pipelines, or other structures.
	☐ No construction would be anticipated for this project
d.	Describe how land use would be affected by operations activities associated with the proposed project.  □ No land areas would be affected
e.	Describe any plans to reclaim areas that would be affected by the proposed project.

f.	. Would the propose	ed project affect any unique or unusual landforms (e.g. cliffs, waterfalls, etc.)?
	□ No	☐ Yes (describe)
g		ed project be located in or near local, state, or federal parks; forests; monuments; scenic ness; recreation facilities; or tribal lands?
	□ No	☐ Yes (describe)
If project work		r item A-7b; then proceed directly to question D.6 (Atmospheric Conditions/ Air Quality) and continue to fill
If project work questionnaire.		7c; then proceed directly to question D.2 (Construction Activities and/or Operations) and continue to fill out
2	. Construction A	ctivities and/or Operation
a.		ucture(s), power line(s), pipeline(s), utilities system(s), right-of-way(s), or road(s) that will clearly mark them on a project site map or topographic map as appropriate.
	□ None	
b.	Would the proposed	project require the construction of waste pits or settling ponds?
	□ No	$\square$ Yes (describe and identify location, and estimate surface area disturbed)
c.	Would the propose	d project affect any existing body of water?
	□ No	☐ Yes (describe)
d.	Would the propose	d project impact a floodplain or wetland?
	□ No	☐ Yes (describe)
e.	Would the propose	d project cause runoff/sedimentation/erosion?
	□ No	□ Yes
f.		bility (e.g., subsidence, perma-frost, erosion, faulting/fracturing) affecting building evelopment, and/or project operation.
3.	Vegetation and	Wildlife Resources
a.	Identify any State-project.	or Federal-listed endangered or threatened plant or animal species affected by the proposed
	□ None	
b.	Would any threater	ned or endangered species habitat be affected by the proposed project?
	□ No	☐ Yes (describe)
c.	Describe any impac	ets that construction would have on any other type of sensitive or unique habitats.
	☐ No planned con	struction $\square$ No habitats $\square$ None $\square$ Impact (describe)
d.		al substance/materials be introduced into ground or surface waters, soil, or other surce because of project activities? How would these foreign substances affect the water, soil rees.
	□ No	☐ Yes (describe)

4. Socioeconomic and Infrastructure Conditions  a. Would local socio-economic changed result from the proposed project?  No Yes (describe)  b. Would the proposed project generate increased traffic use of roads through local neighborhoods, urban or rural areas?  No Yes (describe)  c. Would the proposed project require new transportation access (roads, rail, etc.)? Describe location, impacts, costs.  No Yes (describe)  d. Would the proposed project create a significant increase in local energy usage?  No Yes (describe)  5. Historical/Cultural Resources  a. Describe any historical, archeological, or cultural sites in the vicinity of the proposed project; note any sites included on the National Register of Historic Places  None  b. Would construction or operational activities planned under the proposed project disturb any historical, archeological, or cultural sites?  No planned construction No historical sites None Impact (describe)  c. Has the State Historic Preservation Office been contacted in regard to this project?  No Yes (describe)  d. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape?  No Yes (describe)		□ No	☐ Yes (describe)
□ No       □ Yes (describe)         b. Would the proposed project generate increased traffic use of roads through local neighborhoods, urban or rural areas?       □ No       □ Yes (describe)         c. Would the proposed project require new transportation access (roads, rail, etc.)? Describe location, impacts, costs.       □ No       □ Yes (describe)         d. Would the proposed project create a significant increase in local energy usage?       □ No       □ Yes (describe)         5. Historical/Cultural Resources       a. Describe any historical, archeological, or cultural sites in the vicinity of the proposed project; note any sites included on the National Register of Historic Places       □ None         b. Would construction or operational activities planned under the proposed project disturb any historical, archeological, or cultural sites?       □ No planned construction □No historical sites □ None □ Impact (describe)         c. Has the State Historic Preservation Office been contacted in regard to this project?       □ No □ Yes (describe)         d. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape?       □ No □ Yes (describe)	4.	. Socioeconomi	c and Infrastructure Conditions
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<ul> <li>5. Historical/Cultural Resources</li> <li>a. Describe any historical, archeological, or cultural sites in the vicinity of the proposed project; note any sites included on the National Register of Historic Places    None</li> <li>b. Would construction or operational activities planned under the proposed project disturb any historical, archeological, or cultural sites?    No planned construction   No historical sites   None   Impact (describe)</li> <li>c. Has the State Historic Preservation Office been contacted in regard to this project?    No   Yes (describe)</li> <li>d. Would the proposed project interfere with visual resources (e.g., eliminate scenic views) or alter the present landscape?    No   Yes (describe)</li> </ul>	d.	Would the propos	ed project create a significant increase in local energy usage?
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landscape?  ☐ No ☐ Yes (describe)		□ No	☐ Yes (describe)
	d.		sed project interfere with visual resources (e.g., eliminate scenic views) or alter the present
		□ No	☐ Yes (describe)
roposea project work activities identified under item A-/b, respond to item D6 directly below and continue filling out the	oposed p	project work activit	ies identified under item A-7b, respond to item D6 directly below and continue filling out the

e. Would any migratory animal corridors be impacted or disrupted by the proposed project?

## 6. Atmospheric Conditions/Air Quality

 a. Identify air quality conditions in the immediate vicinity of the proposed project with regard to attainment of National Ambient Air Quality Standards (NAAQS). This information is available under the <u>Green Book</u> <u>Nonattainment Areas for Criteria Pollutants</u> located at <a href="http://epa.gov/oaqps/greenbk">http://epa.gov/oaqps/greenbk</a> or <a href="http://www.epa.gov/air/oaqps/greenbk/astate.html">http://epa.gov/oaqps/greenbk</a> or

	Attainment	Non-Attainment
O <sub>3</sub> – 1 hour		
O <sub>3</sub> – 8 hour		
Sox		
PM – 2.5		
PM – 10		
CO		
NO <sub>2</sub>		
Lead		

D.	project related work and activities?	or mod	шпеа	local, state or federal air	permits to perform
	□ No □ Yes (describe)				
c.	Would the proposed project be in compliance with lo	ocal an	d state	e air quality requirements	3?
	☐ No (explain) ☐ Yes				
d.	Would the proposed project be classified as either a	New S	ource	of a major modification	to an existing source?
	☐ No ☐ Yes (describe)				
e.	What type of air emissions, including fugitive emiss what would be the maximum annual rate of emission				roposed project, and
				Maximum per year	Total for Project
SOx					
NOx					
PM - 2					
PM – I	10				
CO CO <sub>2</sub>					
Lead					
H <sub>2</sub> S					
	ic Solvent Vapors or other volatile organic compound	ls. List			
	dous air pollutants. List.				
Other.	•				
None					
f.	Would any type of emission control or particle colle  ☐ No ☐ Yes (describe, including or				
	in the state of th	oneen	on em	iciencies)	
g.	If no control devices are used, how would emissions	be ver	ited?		
7.	Hydrologic Conditions/Water Quality				
a.	What is the closest body of water to the proposed pro-	oject aı	rea and	d what is its distance from	n the project site?
	<ul><li>b. What sources would supply potable and process water for the proposed project?</li><li>c. Quantify the daily or annual amount of wastewater that would be generated by the proposed project.</li></ul>				
□ Non	e				
□ Non-contact cooling water (gallons)					
□ Proc	cess water	(	gallo	ns)	
□ Sani	tary and/or grey water	(	gallo	ns)	
□ Othe	er-describe	(	gallo	ns)	
d.	<ul> <li>d. What would be the major components of <u>each</u> type of wastewater (e.g., coal fines)?</li> <li>\( \subseteq \) No wastewater produced</li> </ul>				
e.	Identify the local treatment facility that would receive	e wast	ewate	r from the proposed proje	ect.
	$\square$ No discharges to local treatment facility				
f.	f. Describe how wastewater would be collected and treated.				

g.	Would any run-off leachates be produced from storage piles or waste disposal sites?		
	□ No	☐ Yes (describe)	
h. Would the project require issuance of new or modified water pern development activities?			ied water permits to perform project work or site
	□ No	☐ Yes (describe)	
i.	Where would waste	water effluents from the propose	ed project be discharged?
	☐ No wastewater	produced	
j.	Would the proposed	d project be permitted to discharge	ge effluents into an existing body of water?
	□ No	☐ Yes (describe water use a	nd effluent impact)
k.	Would a new or mo	dified National Pollutant Discha	arge Elimination System (NPDES) permit be required?
	□ No	☐ Yes (describe)	
1.	Would the proposed	d project adversely affect the qua	ality or movement of groundwater?
	□ No	☐ Yes (describe)	
m	. Would the proposed	d project require issuance of an <u>U</u>	Underground Injection Control (UIC) permit?
	□ No	☐ Yes (describe)	
		te major nonhazardous solid was	tes that would be generated from the project. Solid wastes ined gaseous material that is discarded or has served its
	intended purpose, o	r is a manufacturing or mining b	y-product (See EPA Municipal Solid Waste at <a href="http://www.epa.gov/msw/states.htm">http://www.epa.gov/msw/states.htm</a> ).
	intended purpose, o	r is a manufacturing or mining b	y-product (See EPA Municipal Solid Waste at
□ Nor	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by mining by solid by Soli	y-product (See <u>EPA Municipal Solid Waste</u> at <a href="http://www.epa.gov/msw/states.htm">http://www.epa.gov/msw/states.htm</a> ).
□ Mu	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by m	y-product (See <u>EPA Municipal Solid Waste</u> at <a href="http://www.epa.gov/msw/states.htm">http://www.epa.gov/msw/states.htm</a> ).
□ Mu	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by m	y-product (See <u>EPA Municipal Solid Waste</u> at <a href="http://www.epa.gov/msw/states.htm">http://www.epa.gov/msw/states.htm</a> ).
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	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by manufacturing	y-product (See <u>EPA Municipal Solid Waste</u> at <a href="http://www.epa.gov/msw/states.htm">http://www.epa.gov/msw/states.htm</a> ).
	intended purpose, on http://www.eap.gov  ne nicipal solid waste, i. ll or coal by-products er - identify  Would project requ	r is a manufacturing or mining by manufacturing	py-product (See EPA Municipal Solid Waste at State at http://www.epa.gov/msw/states.htm).  Annual Quantity
□ Mu □ Coa □ Oth	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by mining by manufacturing or mining by mining and municipal Solid by Series, paper, plastic, etc  ire issuance of new or modified ies?	Annual Quantity  Solid and/or hazardous waste related permits to perform
□ Mu □ Coa □ Oth	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by mining by manufacturing or mining by manu	Annual Quantity  Solid and/or hazardous waste related permits to perform
□ Mu □ Coa □ Oth	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by mining by mining by mining and mining by solid by Series, and mining by series, paper, plastic, etc  ire issuance of new or modified ies?  Yes (explain)  uld solid waste disposal be according to the mining by series.	sy-product (See EPA Municipal Solid Waste at http://www.epa.gov/msw/states.htm).  Annual Quantity  solid and/or hazardous waste related permits to perform  mplished?
□ Mu □ Coa □ Oth b.	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by msw/ and Municipal Solid by See., paper, plastic, etc  ire issuance of new or modified ites?  Yes (explain)  uld solid waste disposal be according and describe location)	sy-product (See EPA Municipal Solid Waste at http://www.epa.gov/msw/states.htm).  Annual Quantity  solid and/or hazardous waste related permits to perform  mplished?
□ Mu □ Coa □ Oth b.	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by msw/ and Municipal Solid by Semsw/ and Explain and Semswar	sy-product (See EPA Municipal Solid Waste at http://www.epa.gov/msw/states.htm).  Annual Quantity  solid and/or hazardous waste related permits to perform  mplished?
□ Mu □ Coa □ Oth b.	intended purpose, on http://www.eap.gov.	r is a manufacturing or mining by msw/ and Municipal Solid by Semsw/ and Explain and Semswar	Annual Quantity  Annual Quantity  solid and/or hazardous waste related permits to perform  mplished?  and treatment)
□ Mu □ Coa □ Oth  b.  c.	intended purpose, on http://www.eap.gov	r is a manufacturing or mining by msw/ and Municipal Solid by Semsw/ and Explain and Semswar	Annual Quantity  Annual Quantity  solid and/or hazardous waste related permits to perform  mplished?  and treatment)  used, or stored under this project. Hazardous information ttp://epa.gov/epaoswer/osw/hazwaste.htm.

g.		and Disposal) facility?	arrangements been made with a certified 13D
	☐ Not required	☐ Arrangements not yet made	☐ Arrangements made with certified TSD facility (identify):
He	ealth/Safety Factors		
a.	Identify hazardous or	toxic materials that would be used	in the proposed project.
	□ None	☐ Hazardous or toxic substances	that would be used (identify):
b.	What would be the lil environments?	kely impacts of these project related	hazardous materials on human health and the
	□ None	☐ Yes (explain)	
c.	Would there be any s	pecial physical hazards or health ris	ks associated with the project?
	□ No	☐ Yes (describe)	
d.	Does a worker safety	program exist at the location of the	proposed project?
	□ No	☐ Yes (describe)	
e.	Would safety training	g be necessary for any laboratory, ec	nuipment, or processes involved with the project?
	□ No	☐ Yes (describe)	
f.	Describe any increase	es in ambient noise levels to the pub	lic from construction and operational activities.
	□ None	☐ Increase in ambient noise leve	•
g.	Would project constru	uction result in the removal of natur	al barriers that act as noise screens?
	☐ No construction p	olanned $\square$ No $\square$	Yes (describe)
h.	Would hearing protect	ction be required for workers?	
	□ No	☐ Yes (describe)	
10	. Environmental Ro	estoration and/or Waste Manager	ient
a.	Would the proposed p	project include CERCLA removals	or similar actions under RCRA or other authorities?
	□ No	☐ Yes (describe)	
b.		project include siting, construction, es or pilot-scale waste stabilization a	and operation of temporary pilot-scale waste collection and containment facilities?
	□ No	☐ Yes (describe)	
c.	Would the proposed p	project involve operations of environ	nmental monitoring and control systems?
	□ No	☐ Yes (describe)	
d.		project involve siting, construction, ardous waste for 90 days or less?	operation, and decommissioning of a facility for
	□ No	☐ Yes (describe)	

# E. Regulatory Compliance

1.	For the following laws, describe any existing permits, new or modified permits, manifests, responsible authorities or agencies, contracts, etc., that would be required for the proposed project (Information on the following environmental laws can be found at the <a href="Major Environmental Law">Major Environmental Law</a> website <a href="http://www.epa.gov/epahome/lawas.htm">http://www.epa.gov/epahome/lawas.htm</a> :			
a.	Resource Conservation and Recovery Act (RCRA)			
	□ None □ Required (describe)			
b.	Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):			
	□ None □ Required (describe)			
c.	Toxic substance Control Act (TCSA):			
	□ None □ Required (describe)			
d.	Clean Water Act (CWA):			
	□ None □ Required (describe)			
e.	Underground Storage Tank Control Program (UST):			
	□ None □ Required (describe)			
f.	Underground Injection Control Program (UIC):			
	□ None □ Required (describe)			
g.	Clean Air Act (CAA):			
	□ None □ Required (describe)			
h.	Endangered Species Act (ESA):			
	□ None □ Required (describe)			
i.	oodplains and Wetlands Regulations:			
	□ None □ Required (describe)			
j.	Fish and Wildlife Coordination Act (FWCA)			
	□ None □ Required (describe)			
k.	National Historic Preservation Act (NHPA):			
	□ None □ Required (describe)			
l.	Coastal Zone Management Act (CZMA):			
	□ None □ Required (describe)			
2.	Identify any other environmental laws and regulations (Federal, state <u>and</u> local) for which compliance would be necessary for this project, and describe the permits, manifests, and contracts that would be required.			
F.	DESCRIBE ANY ISSUES THAT WOULD GENERATE PUBLIC CONTROVERSY REGARDING THE PROPOSED PROJECT.			
	□ None			

☐ None		☐ Yes (d	describe)							
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☐ None (pro	vide su	oporting de	etail) 🗆	Significant	impacts (des	cribe)				
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